

What is claimed is:

1. An anastomotic connector comprising:  
a fitting having a tubular portion with a proximal end and a distal end, and  
wherein at least one self-expanding petal is disposed on the tubular portion distal end,  
said petal adapted to compress into a low profile for insertion through a sheath and to  
self-expand towards at least one resting geometry upon advancing beyond a sheath  
distal end.
2. The fitting of claim 1 additionally comprising a ring adapted for  
compressing a vessel wall between the petal and the ring.
3. The fitting of claim 1 wherein the petal forms an angle of between  
about 30 degrees and 150 degrees with a longitudinal axis of the fitting tubular  
portion when the petal is in the resting geometry.
4. The fitting of claim 1 additionally comprising a graft attached to the  
fitting tubular portion.
5. The fitting of claim 4 additionally comprising a retaining ring disposed  
about the graft where the graft is attached to the fitting tubular portion.
6. An anastomotic connector comprising:  
a fitting having a tubular portion with a proximal end and a distal end;  
at least two opposed self-expanding axial petals disposed on the tubular  
portion distal end, each of said axial petals adapted to compress into a low profile for  
insertion through a sheath and self-expand in opposite directions to form an angle of



between about 30 degrees and 150 degrees with a longitudinal axis of the tubular portion upon advancing beyond the distal end of the sheath; and

at least two opposed self-expanding radial petals adapted to compress into a low profile for insertion through a sheath and self-expand to extend radially in a substantially circular profile upon advancing beyond the distal end of the sheath.

7. The connector of claim 6 wherein the distal ends of the radial petals substantially overlap when the petals are in the self-expanded condition.

8. The connector of claim 6 additionally comprising two additional radial petals.

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